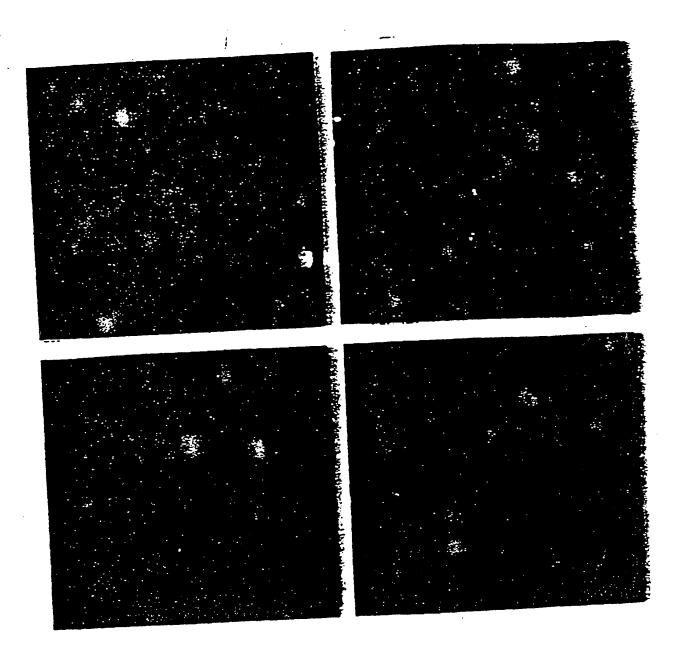
(Myc)



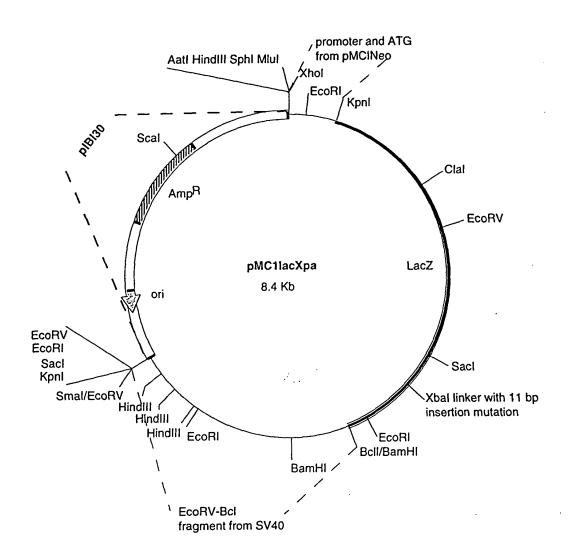
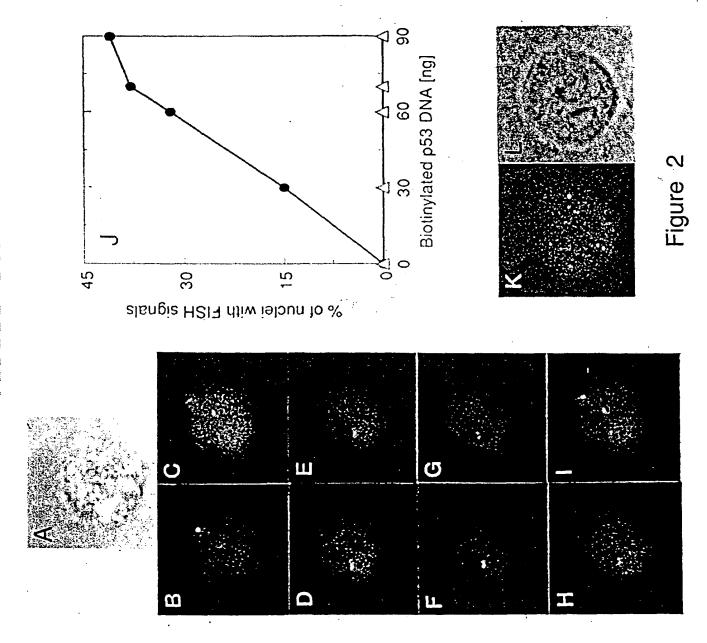


FIGURE 3



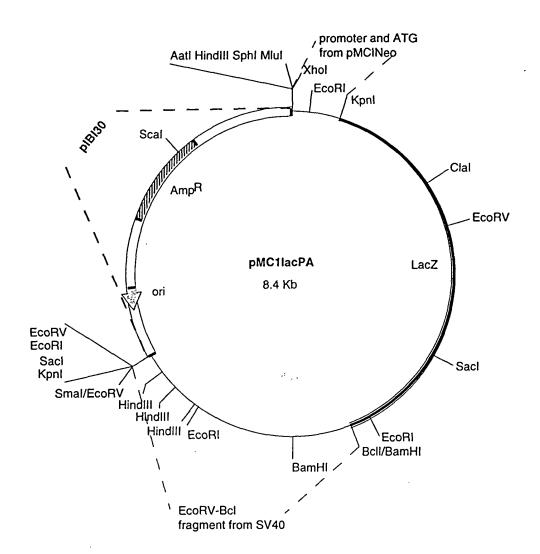


FIGURE 4

Figure 5

3610 3620 3630 3640 3650 3660 ATAAAAAACAACTGCTGACGCCGCTGCGCGATCAGTTCACCCGTGCACCGCTGGATAACG

3670 3680 3690 3700 3710 3720
ACATTGGCGTAAGTGAAGCGACCCGCATTGACCCTAACGCCTGGGTCGAACGCTGGAAGG

PCR α

3730 3740 3750 3760 3770 3780 CGGCGGGCCATTACCAGGCCGAAGCAGCGTTGTTGCAGTGCACGGCAGATACACTTGCTG

CTCTAGACGCG, Xba Linker with

3850 3860 3870 3880 3890 3900 GCCGGAAAACCTACCGGATTGATGGTAGTGGTCAAATGGCGATTACCGTTGATGTTGAAG

PCR β

3910 3920 3930 3940 3950 3960
TGGCGAGCGATACACCGCATCCGGCGCGCGCGCTGAACTGCCAGCTGGCGCAGGTAG

3970 3980 3990 4000 4010 4020 CAGAGCGGGTAAACTGGCTCGGATTAGGGCCGCAAGAAAACTATCCCGACCGCCTTACTG

TEST FOR ALTERATION OF AN INSERTION MUTATION IN THE lacZ $(\beta\text{-}GALACTOSIDASE)$ GENE OF EUKARYOTIC EXPRESSION VECTOR

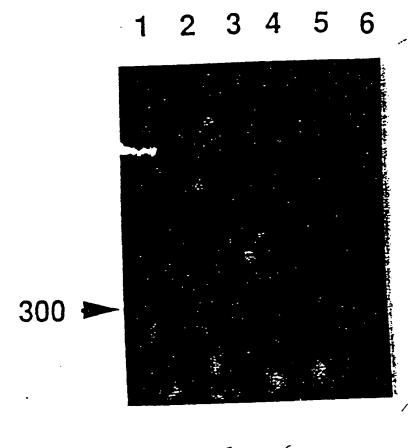
Experimental Sample	276-mer [d Plasmid, DNA and RecA rotein	Number of Injected Surviving Cells	Number of Surviving Cells Scoring Blue	Surviving Cells Scoring Blue (%)
1	pSV-β-gal	-276-mer - RecA	168	21	12.5
2	pMC1lacpa	- 276-mer - RecA	98	9	9.2
3	pMC1lacXpa	- 276-mer - RecA	173	0	0
4	pMC1lacXpa	+ 276-mer - RecA	103	0	0
5	pMC1lacXpa	+ 276-mer + RecA	168	6	3.6

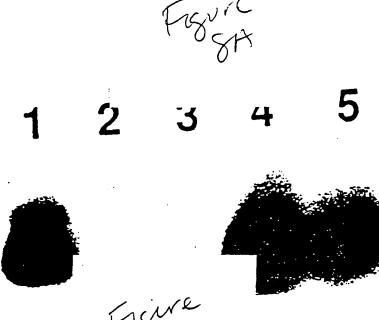
Figure 6

Solitorio Solito

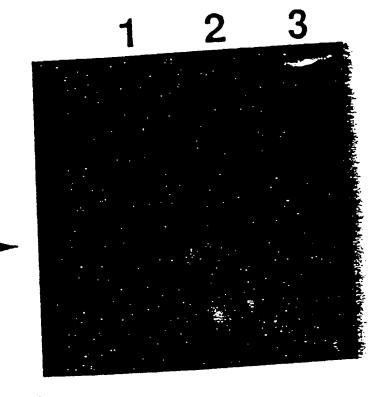


687 bp





FISINE



(15°9

Scheme for recombination assay

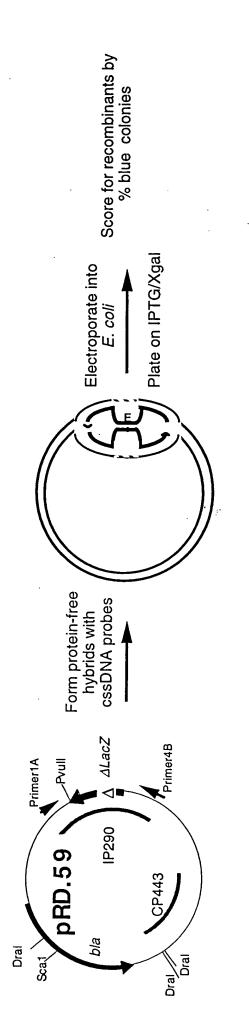


Figure 10

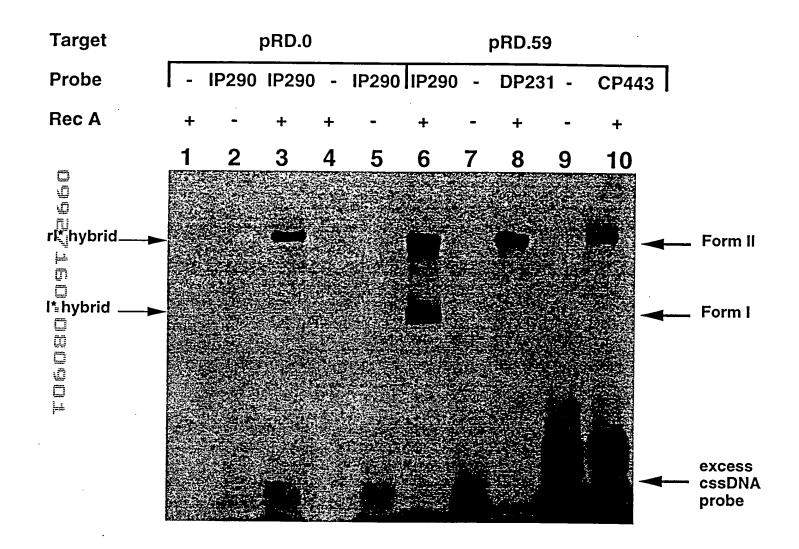


FIGURE 11

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cssDNA Probe: Target Hybrids Enhance Homologous Recombination

<u>.</u>	RecA		%Recombinant
larget Probe	coating	Host	sellicolonies
pRD.59 -	+ +	RecA+ RecA -	00
pRD.59 IP290 IP290 pRD.59 IP290 IP290	+ +	RecA+ RecA- RecA+ RecA-	0000
pRD.59 DP290 DP290 pRD.59 DP290 DP290	+ +	RecA+ RecA- RecA+ RecA-	0000
pRD.59 CP443 CP443 pRD.59 CP443 CP443	+ +	RecA+ RecA - RecA+ RecA -	0000

Figure 12

TOEDED" DETZEEGO Stable

Four-strand hybrids

Unstable

Three-strand hybrids

Certain regions of DNA probe or target strands are unpaired

All DNA probe and target strands are paired

r unpaired unpaired 🖊 A. Target DNA completely homologous No Internal Homology Clamp

B. Target DNA with a deletion

Internal Homology Clamp formed by cssDNA probe

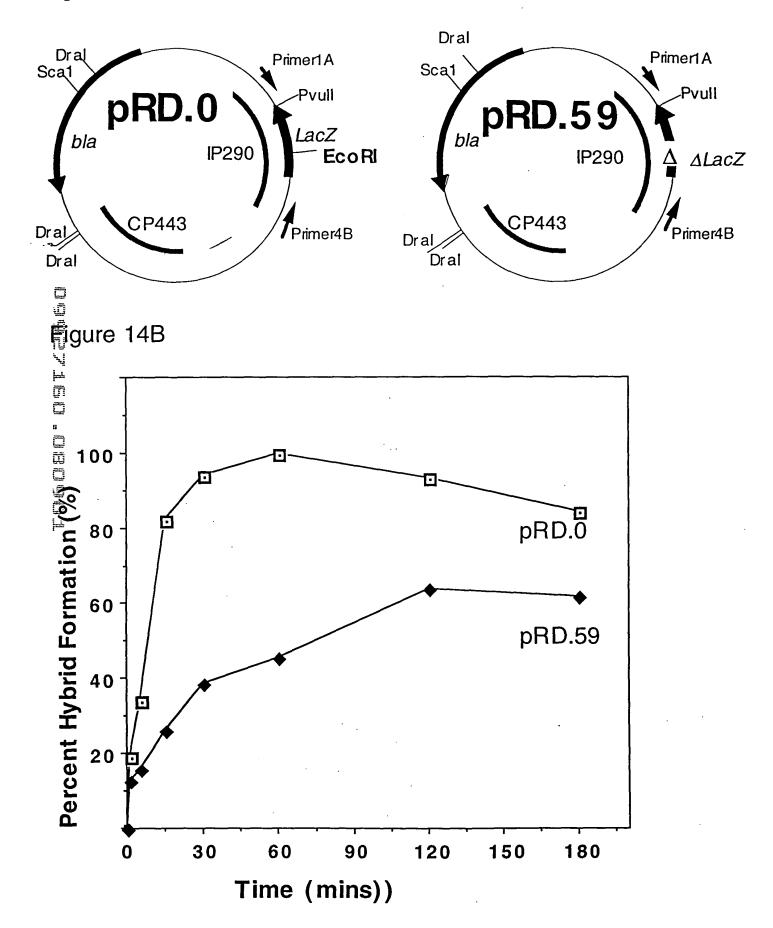
- unpaired

C. Target DNA with an insertion

Internal Homology Clamp formed by dsDNA target

Figure 13

Figure 14A



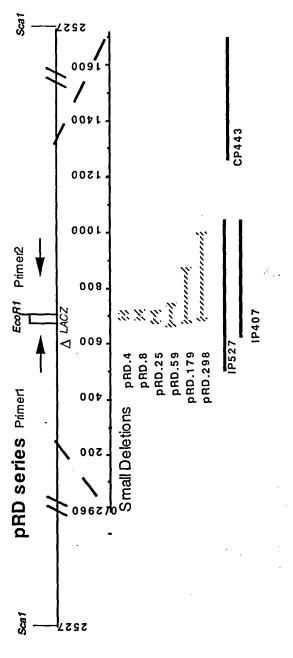
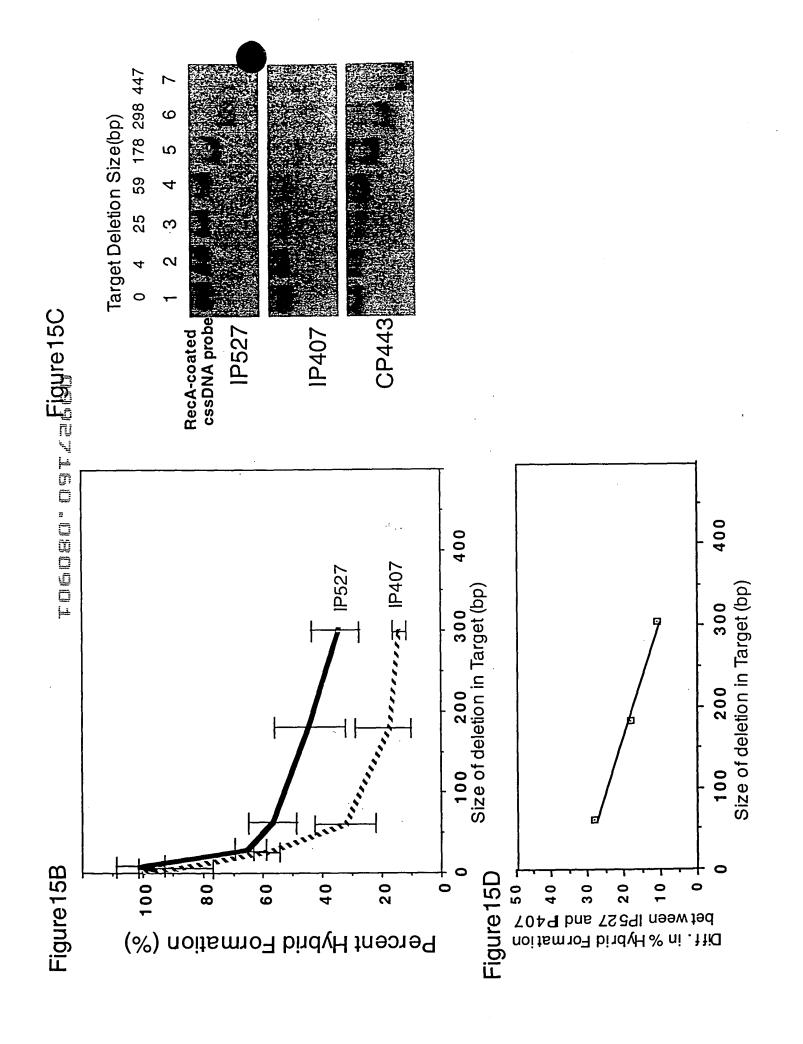


Figure 15A

٢.

 \triangleleft



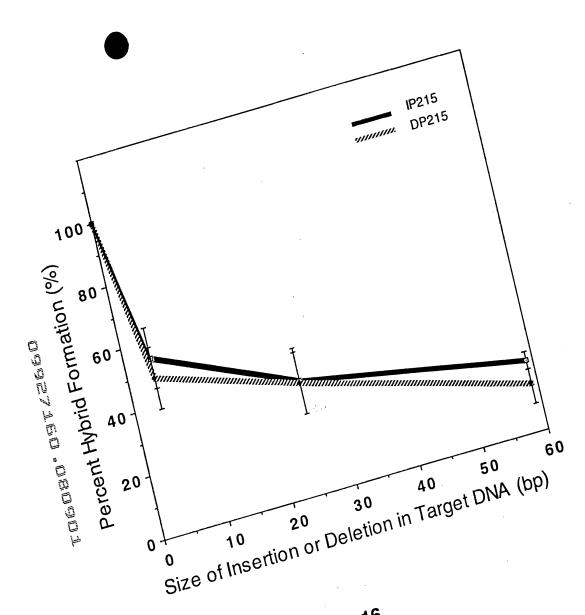


Figure 16

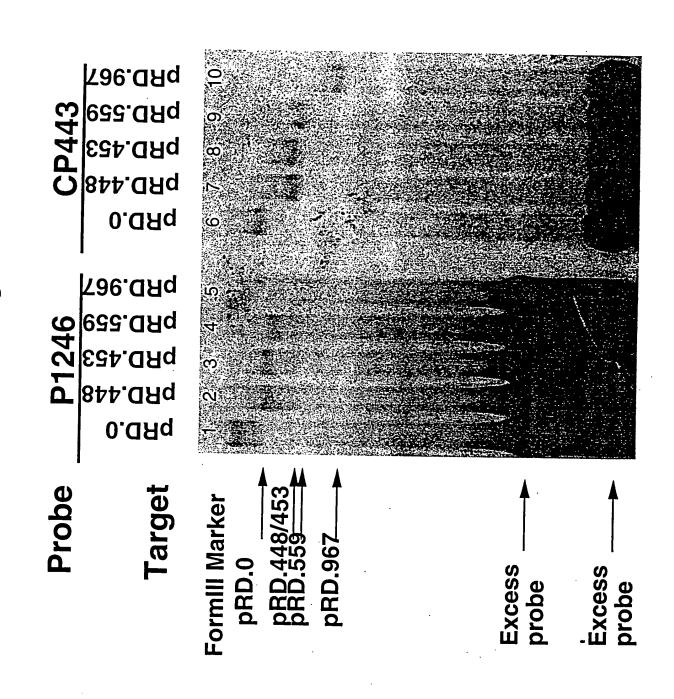


Figure 17B

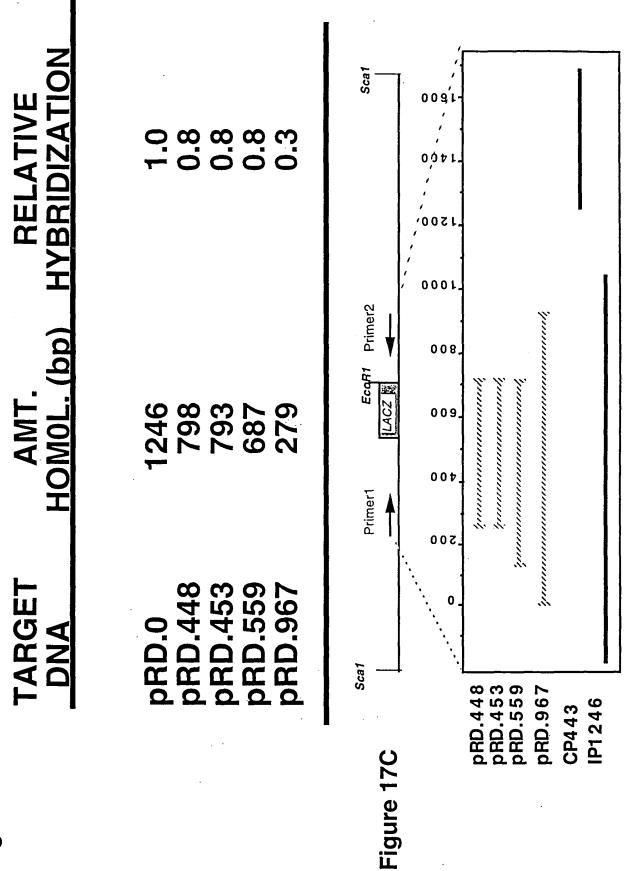


Figure 18

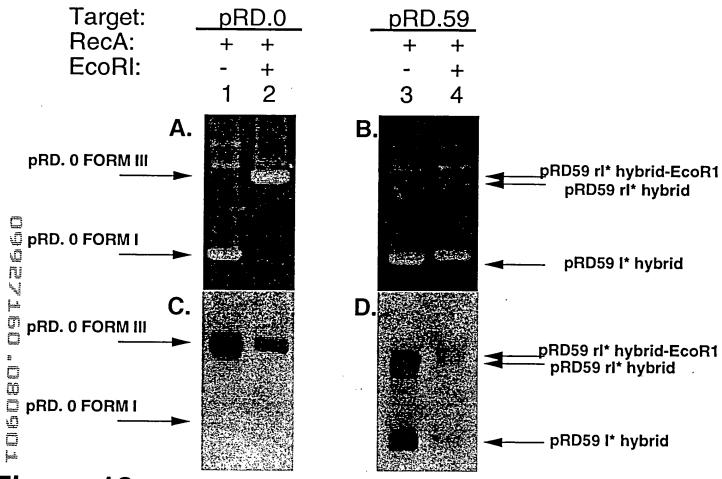
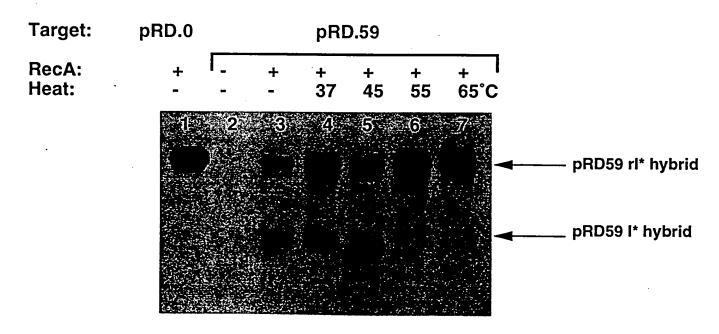


Figure 19



Mouse Ornithine Transcarbamylase Gene

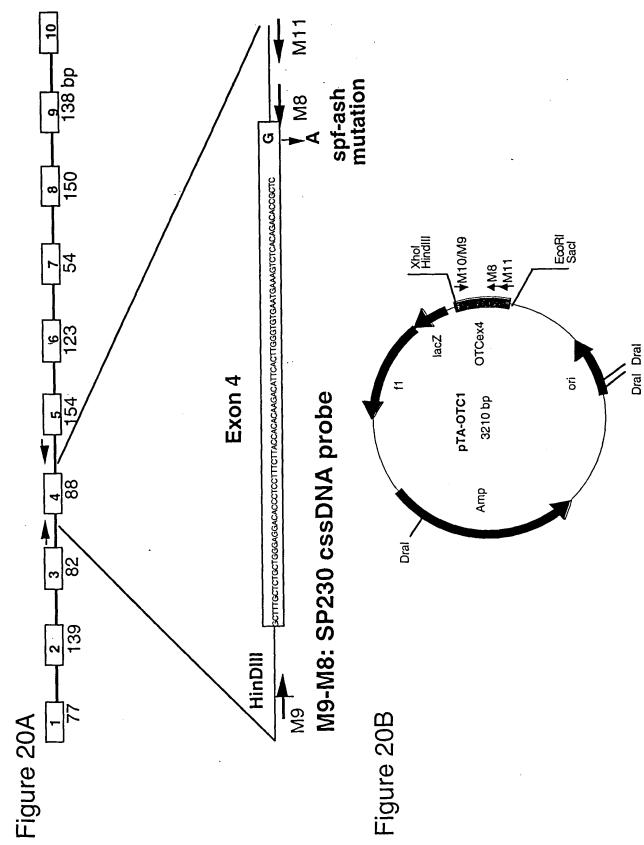
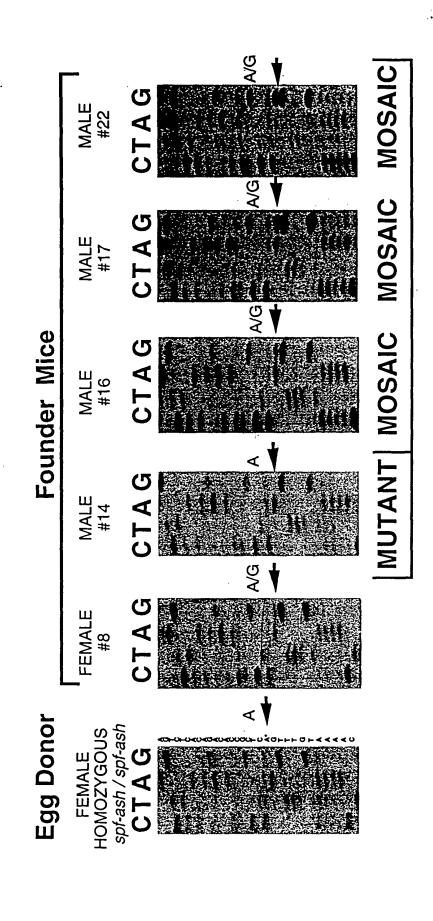


Figure 21

OTC exon4 DNA sequence determination



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正 Germline Transmission of EHR Corrected OTC+ Allele 24 SP230 cssDNA filaments hemizygous mutant 9 23 mosaic mutant 22 Microinjection of 18-21 normal 5 \overline{Z} spf-ash / Y + / Y spf-ash / Y #1014 Male 16 heterozygous mutant spf-ash / spf-ash homozygous mutant homozygous normal 24 #213 15 4 spf-ash / + 24 8-13 Female ∞ cross B. Figure 22 ^ control 0 14 **MOUSE**# cross A. control

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